

This listing of claims will replace all prior versions, and listings, of claims in the application

### LISTING OF CLAIMS

1. (currently amended) A circuit arrangement, comprising:

5 a transmission unit for inserting data belonging to at least two ~~one~~ terminal equipment types or services that are capable of including both voice and data type in a frame having a frame length, said transmission unit comprising an insertion mechanism for inserting said data ~~of a terminal equipment~~ of the at least two ~~one~~ terminal equipment types type, said data of all terminal equipment types being synchronously inserted into  
10 said frame and transmitted ~~with a transfer rate formed dependent on the frame length and number of bits arranged in the frame~~ with a digital time-division multiplex technique.

15 2. (currently amended) A circuit arrangement, comprising:

a reception unit for dividing a datastream transmitted in a frame, said frame comprising data belonging to at least two terminal equipment types or services that are capable of including both voice and data, by a transmitter to at least one terminal equipment type of said at least two  
20 terminal equipment types; and

a switch module for a purpose-conforming division of said datastream transmitted in said frame, in which a further division onto further terminal equipment of said at least two a terminal equipment types or services type is undertaken based on control data.

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3. (original) A circuit arrangement, comprising a transmission-reception unit which comprises said transmission unit of claim 1, and said reception unit of claim 2.

4. (currently amended) A method for transmitting a data stream in a frame belonging to at least two ~~one~~ terminal equipment types or services that are capable of including both voice and data type, comprising the steps of:

- 5           synchronously inserting data of said at least two ~~all~~ terminal equipment types or services into said frame in a first unit;
- transmitting said data ~~with a transfer rate formed dependent on a frame length and number of bits arranged in the frame~~ to a second unit with a time-division multiplex method; and
- 10           dividing said data stream in said frame to terminal devices of at least two ~~one~~ terminal equipment types or services type in said second unit.

5. (currently amended) A method according to claim 4, further comprising the step of depositing data for operational control of connections ~~a connection~~ to which
- 15           at least two ~~one~~ terminal equipment types or services that is capable of including both voice and data are is connected in a single ~~an~~ operating eoc channel of said frame.

6. (original) A method according to claim 5, wherein said connections are
- 20           telephony connections, ISDN connections or broadband connections.

7. (original) A method according to claim 4, further comprising the step of filling a payload data region available in a frame in a terminal equipment-specific manner depending on a transmission rate of a transmission link.

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8. (original) A method according to claim 4, further comprising the step of connecting a plurality of terminal equipment of at least one terminal equipment type to a transmission-reception unit.

5           9. (currently amended) A method according to claim 4, further comprising the steps of:

providing bits for operational control in said data belonging to said a terminal equipment types or services type; and

10           arranging said bits outside of a payload data region provided for said terminal equipment.

10. (original) A method according to claim 9, wherein said bits for operational control are arranged in an overhead of said frame.

15           11. (original) A method according to claim 10, further comprising the steps of: allocating said bits for operational control to an operating eoc channel; and addressing said bits for operational control via a sub-address in a message format of said operating channel.

20           12. (original) A method according to claim 4, further comprising the step of accepting data of a plurality of ISDN connections in said frame, said frame being a symmetric digital subscriber line frame.

25           13. (original) A method according to claim 4, further comprising the step of accepting data of a plurality of traditional telephony connections in said frame, said frame being a symmetric digital subscriber line frame.

14. (previously presented) A method according to claim 4, wherein said step of transmitting said data comprises transmitting said data of a symmetric digital subscriber line frame synchronously on a transmission link between said first unit, which is a network node, and said second unit, which is a network termination unit with a time-division multiplex method.

15. (cancelled).

16. (currently amended) A method for transmitting a data stream in a frame belonging to at least two ~~one~~ terminal equipment types or services that are capable of including both voice and data type, comprising the steps of:

synchronously inserting data of said at least two individual terminal equipment types or services into said frame in a first unit;

synchronously transmitting said data ~~with a transfer rate formed dependent on a frame length and number of bits arranged in the frame~~ to a second unit with a time-division multiplex method; and

dividing said data stream of said frame to terminal devices of at least two ~~one~~ terminal equipment types or services type in said second unit.

17. (new) A method for providing an ISDN service utilizing an SDSL frame, comprising:

providing voice channels and higher layer signaling of ISDN as a payload inside said SDSL frame;

providing ISDN specific eoc messages as an SDSL eoc that is not a part of the payload and is not multiplexed into timeslots; and

transmitting said SDSL frame from a transmitter to a receiver in order to  
achieve a synchronous transfer without an ISDN physical layer.

18. (new) A method for providing a synchronous transfer of payload services  
5 that include ISDN, voice and data over an SDSL communication link, comprising:  
providing at least two payload services in a single SDSL frame;  
providing a common overhead infrastructure that includes synchronization  
and an eoc signaling channel for the SDSL frame, wherein the  
assignment of the logic eoc channels between terminations is made  
10 via addressing;  
wherein the synchronization utilizes an SDSL clock.

19. (new) A method for providing a synchronous transfer of payload services  
that include ISDN, voice and data over an SDSL communication link, comprising:  
15 creating an SDSL sub-block that comprises an ISDN B-channel, an ISDN D-  
channel, and further payload data;  
combining multiple SDSL sub-blocks with SDSL overhead into an SDSL  
payload block; and  
transmitting multiple SDSL payload blocks from a sender to a receiver.

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20. (new) The method according to claim 1, wherein the frame further  
comprises a single common embedded operating channel data block over the data  
for the multiple terminal equipment types or services.

Appl. No. 09/697,262

Reply to Office Action of December 28, 2004

21. (new) The method according to claim 2, wherein the frame further comprises a single common embedded operating channel data block over the data for the multiple terminal equipment types or services.